

Title of Invention: FALL THRU SAND TRAP

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Field of Search: 210/282 210/448 210/295 210/444

BACKGROUND OF INVENTION

This invention relates to a type of filter to remove foreign objects from fluids, such as water systems, irrigation systems, domestic water supply, industrial water supply, water source heat pumps, etc. It employs a filtering system and a unique trap to hold particles until it is purged. It has an efficient backwash method to clean the filter screen.

Other in line filters, as the screen in housing type, hold sand in suspension in the housing, as water flows through the filter it agitates the sand, thus breaking it up into smaller pieces, until it passes through the screen rendering the filter processing ineffective. String wound and cartridge type filters, plug fast, causing a pressure drop, and are expensive and inconvenient to replace. The FALL THRU SAND TRAP allows sand to fall out of the main flow and be collected for more efficient operation, and is easy to purge.

Description of the Four Views of the Drawings:

Figure 1: Shows the FALL THRU SAND TRAP side view in the normal flow position. Proper positioning of the on/off valves directing the inlet water through the filter and to the outlet of the filter.

Figure 2: Shows the FALL THRU SAND TRAP side view in the purge flow position. Proper positioning of the on/off valves for the purging of the filter.

Figure 3: Shows a side and top view of the FALL THRU SAND TRAP detailing a breakdown of parts.

Figure 4: Shows an exploded view of the internal construction of the filter screen sealed to the threaded portion of the male adapter.